

19.02

Ship NOV. 29

Work Order ID 153592

153592

Page 1

Tuesday, November 22, 2016 11:55:42 AM

Item ID: D2017-103

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Step Struts

Start Date: 11/22/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 11/28/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

Date: 16-11-22

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

Draw Nbr

Revision Nbr

D2017

Rev F

100

0.00

100

Brake NC

Memo

0.00

Brake NC

Punch tube type 304-2B
Drill hole to .312" as per Dwg(One end Only)
Deburr

1 FF NOV 23 2016

110

QC5- Inspect part completeness to step on W/O

0.00

110

QC

Memo

0.00

Quality Control

1 38 9-89 NOV 23 2016

120

White Gloss(Ref:4.3.5.2) per QSI005 4.3-Steel

0.00

120

Powdercoat

Memo

0.00

Powder Coating

START: 10:25
O.V.T: 400°
FINISH: 10:55

1 34 9-89 16-11-24

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition			Completed By																		
							Lead hand / Supervisor Approval Verification																		
							QC / QA Coordinator Approval																		
Root Cause		FAULT CATEGORY																							
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153592

Tuesday, November 22, 2016 11:55:42 AM

N900040100

Setup Start *NS1*

Stop *NS2*

1

Cust Item ID:

1

Customer:

Required Date: 11/28/2016 **Req'd Qty:** 1.00

Run Start *NR1*

Stop *NR2*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

[illegible]

140	Identify as per dwg & Stock Location: <u>St356</u>	0.00
140		
Packaging	Memo	0.00
Packaging		

NOV 25 2016

150	QC21- Final Inspection - Work Order Release	0.00
150		
QC	Memo	0.00
Quality Control		

16/11/28

DAS 21 NOV 25 2016 9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____		MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition			
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
		OTHER : _____					

Picklist Print

Tuesday, November 22, 2016 11:55:50 AM

Page 1

Work Order ID: 153592

153592

Parent Item: D2017-103

D2017-103

Parent Item Name: Step Struts

Start Date: 11/22/2016

Required Date: 11/28/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP E02.06.18Added finishing level (Ref. ECN 435) KJ/RF

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304TR0.750W.049		Purchased			No	100	f	208.9851	1.5831	1.666421			

M304TR0 750W 049

304 RD Tube .750 x .049W

FF

NOV 23 2016

Location

Loc Qty

Loc Code

GA002

208.9851211

M134528

30.2105266

M134604

43.420524

M134824

5.8478935

M135093

33.68421

M135242

36.2852715

M135373

39.983907

M135709

5.1790537

M135857

14.3737348

1.666421

DQA: _____ Date: _____

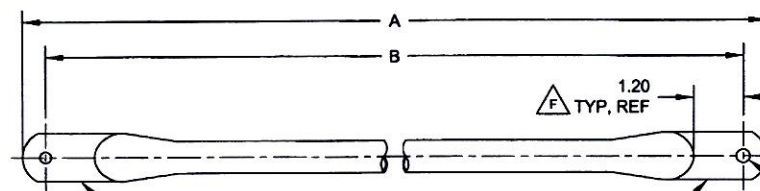
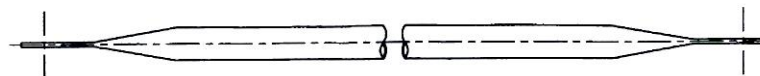


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OTHER :																					



Ø0.312
WIDEN HOLE
AFTER PUNCHING
1 END ONLY

8
EXCEPT
AS SHOWN

D2017-XXX STEP STRUT

PART NUMBER	A	B
D2017-101	17.73	16.93
D2017-103	18.74	17.94
D2017-113	20.50	19.70

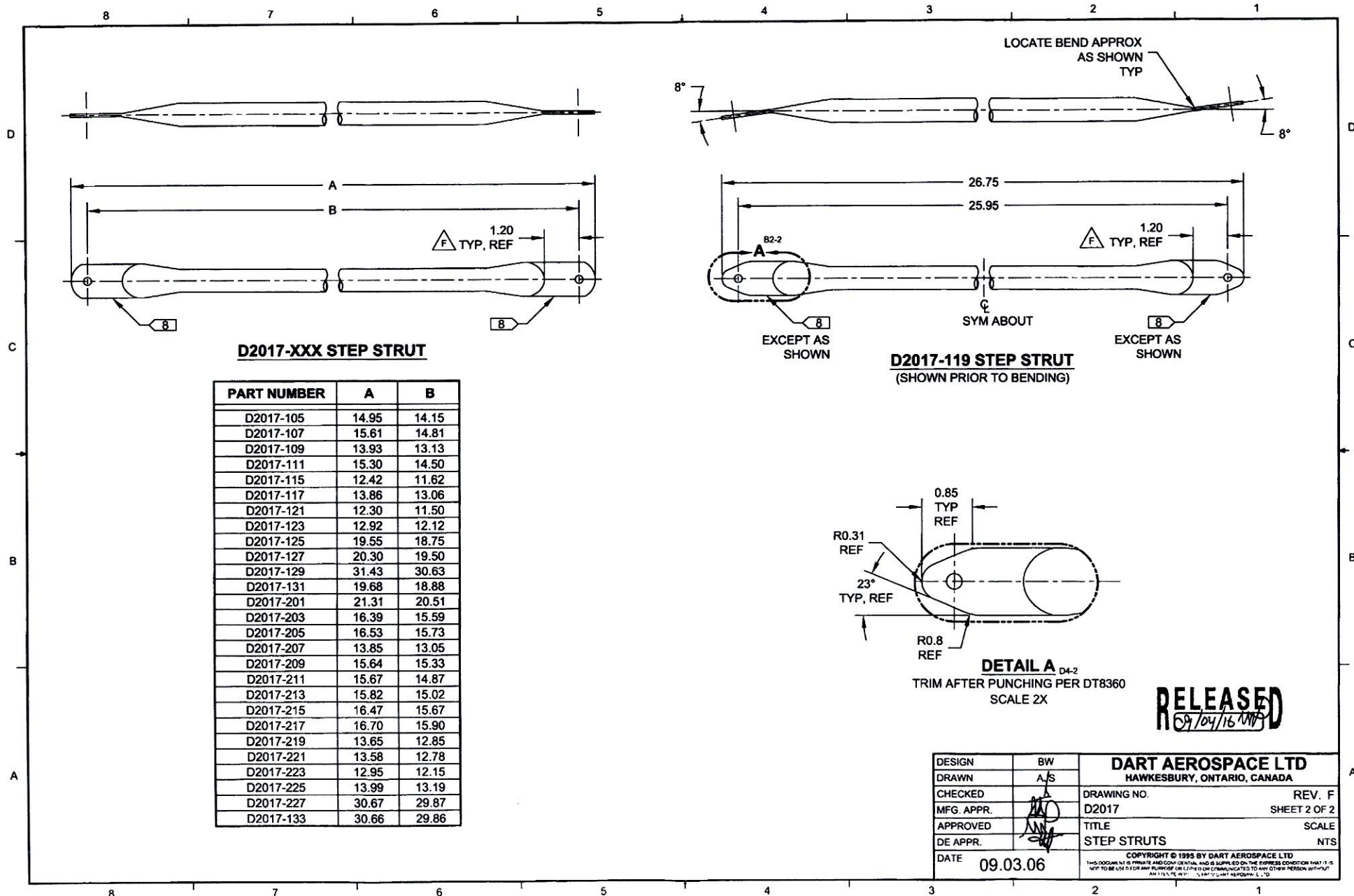
RELEASED
29/04/16/MW

NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL TUBE, Ø0.750 x 0.049 WALL
REF. DART SPEC M304TR0.750W.049
- 2) FINISH: POWDER COAT WHITE (4.3.5.2) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D2017-XXX" USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: N/A
- 8) PUNCH ENDS PER SPEC CONTROL DRAWING D2638.

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 153502
16-11-82

F	DRAWING TRANSFERRED TO "B" FORMAT AND TO CURRENT STANDARDS. REDRAWN FOR CLARITY 1.20 REF DIM ADDED. SEE PAR 09-002 FOR DETAILS.	AJS	09.03.06
E	ENDS PUNCHED PER SPEC CTRL; -119 CHANGE (TSR A897) ADD FINISH (INCOPORATE E1)	CP	02.03.22
D	ADDED PARTS	BW	96.03.28
C	ADDED PARTS	BW	95.01.26
REV.	DESCRIPTION	BY	DATE
DESIGN	BW	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED		DRAWING NO.	REV. F
MFG. APPR.		D2017	SHEET 1 OF 2
APPROVED		TITLE	SCALE
DE APPR.		STEP STRUTS	NTS
DATE	09.03.06	COPYRIGHT © 1995 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL. IT IS TO BE KEPT IN THE CONFIDENTIALITY OF THE COMPANY AND NOT TO BE USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.	



INSPECTION SHEET

Rev	Date	Change	Revised by	Approved
B	14.07.31	New Issue	KJ	